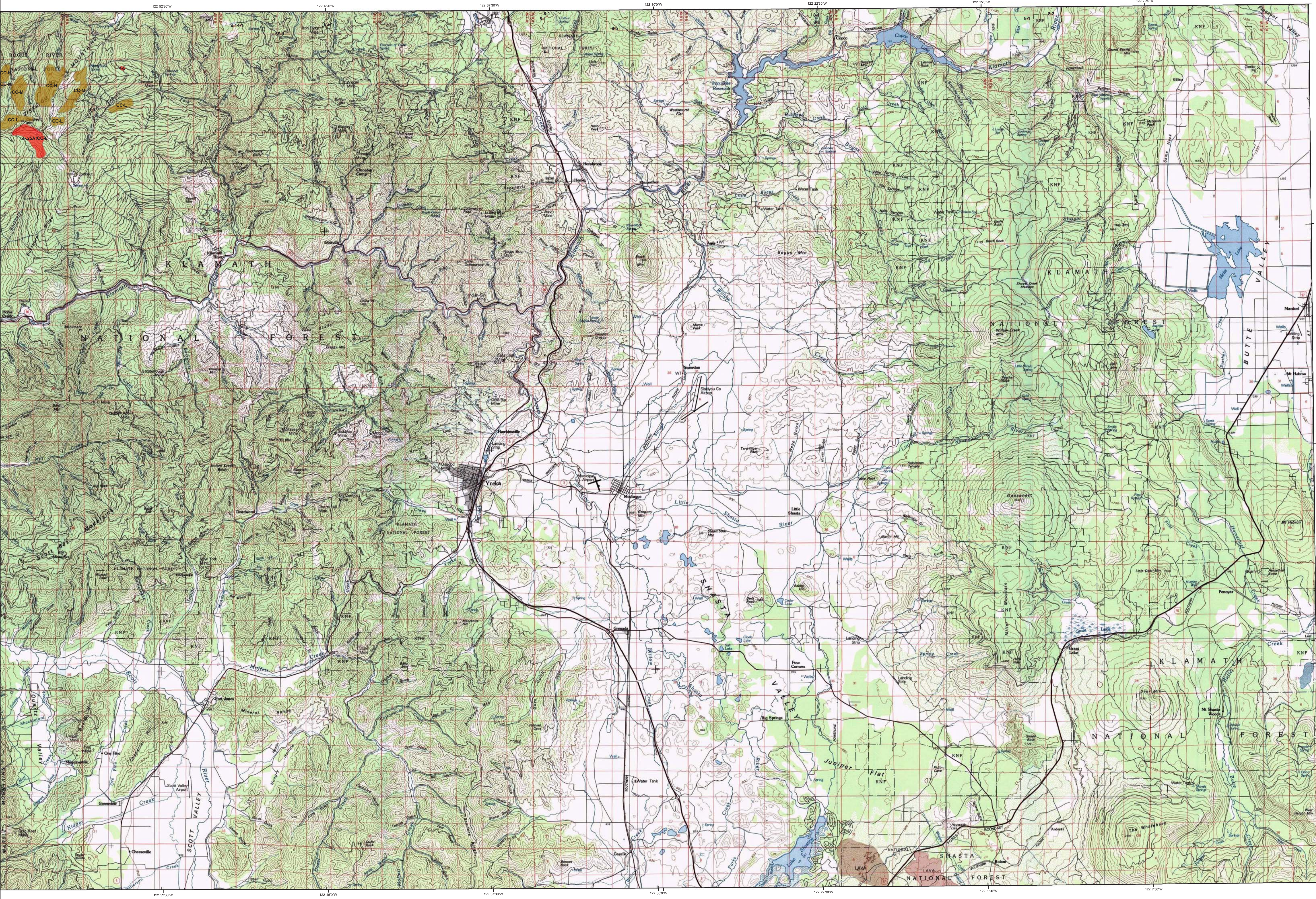


2007 Aerial Insect and Disease Survey

USGS 100K Quad: Yreka - E141122; 30



Defoliators			Mortality Agents		
Code	Damaging Agent	Primary Host	Code	Damaging Agent	Primary Host
AS	Spruce aphid	Sitka spruce	1	Douglas-fir beetle	Douglas-fir
BB	Western blackheaded budworm	Hemlock, spruce, true fir	2	Douglas-fir engraver	Douglas-fir
BM	Modoc budworm	White fir	3	Spruce beetle	Spruce
BP	Sugar pine tortrix	Lodgepole, ponderosa pines	4	Fir engraver	True fir
BS	Western spruce budworm	Ponderosa pine	5	Western balsam bark beetle	Sub-alpine fir
BY	Bryum's blight/Lophodermella	True fir, Douglas-fir, spruce	6J	Mountain pine beetle	Whitebark pine
CH	Larid	Western larch	6L	Mountain pine beetle	Jeffrey pine
HL	Western hemlock looper	Western hemlock looper	6K	Mountain pine beetle	Knobcone pine
LG	Green striped forest looper	Douglas-fir, Western hemlock	6L	Mountain pine beetle	Lodgepole pine
LL	Larch looper	Western larch	6S	Mountain pine beetle	Ponderosa pine
LS	Black pine needle scale	Ponderosa pine	6W	Mountain pine beetle	Sugar pine
MD	Douglas-fir budmoth	Western larch	6W	Mountain pine beetle	Western white pine
ML	Larch budmoth	Western larch	7	Ips spp.	Ponderosa, lodgepole pines
MS	Douglas-fir needle midge	Douglas-fir	8	Western pine beetle	Ponderosa pine
MN	Needle miner	Spruce	8S	Western pine beetle	Ponderosa pine
NJ	Needle miner	Jeffrey pine	9	Silver fir beetle	Silver fir, true fir
NK	Needle miner	Knobcone pine	BEAR	Bear damage	Conifer
NL	Needle miner	Lodgepole pine	F	Flatheaded wood borer	Ponderosa pine
NM	Needle miner	Conifer	LW	Black stain root disease	Douglas-fir, ponderosa pine
NP	Needle miner	Ponderosa pine	PL	Port Orford cedar root disease	Port Orford cedar
NS	Needle miner	Sugar pine	RD	Root disease	Conifer
NT	Needle miner	True fir	WATR	Water damage	All species
NW	Needle miner	Western white pine			
OL	Western oak looper	Oaks			
PF	Pine butterfly	Ponderosa pine			
PC	Pine needle cast	Ponderosa pine			
PH	Phantom hemlock looper	Hemlock, Douglas-fir			
PM	Pandora moth	Ponderosa, Jeffrey pines			
PN	Pine needle/needle miner	Ponderosa, Jeffrey pines			
PS	Pine needle scale	Western larch			
RA	Needle cast	Conifer			
S	Spider mite	Aspen			
SC	Sawfly	Douglas-fir			
SD	Sawfly	True fir			
SE	Sawfly	Hemlock			
SK	Sawfly	Ponderosa pine			
SL	Sawfly	Lodgepole pine			
SM	Satin moth	Aspen			
SNC	Swiss needle cast	Ponderosa pine			
SP	Sawfly	Western larch			
SV	Sawfly	Alder			
TA	Tent caterpillar, alder	True fir, Douglas-fir			
TC	Tent caterpillar, other	Aspen			
TM	Douglas-fir tussock moth				
TS	Tent caterpillar, aspen				

USGS 100K Quad: Yreka - E141122; 30

2007 Aerial Insect and Disease Detection Survey

Mapscale: 1:100,000

Date: December 4, 2007

Legend

Defoliating Agents

Mortality Agents

Other Damage

The map base was created with TOPO! (Copyright 2001, National Geographic); available online at: www.ngmapstore.com

A data dictionary, digital copies of this map and ArcGIS insect and disease data are available at: www.fs.fed.us/r6/nr/fid/data.shtml

Vicinity Map

How the Aerial Surveys Are Conducted

Data represented on this map are based on trees visibly affected by forest insects and diseases detected and recorded during aerial survey flights conducted by the USDA Forest Service and the Oregon Department of Forestry. Observers have just a few seconds to recognize the color difference between healthy and damaged trees of different species; diagnose causal agents correctly; estimate intensity; delineate the extent of damage; and precisely record this information on a georeferenced, digital map. Air turbulence, cloud shadows, distance from aircraft, haze, smoke and observer experience can all affect the quality of the survey. These data summaries provide an estimate of conditions on the ground and may differ from estimates derived by other methods.

The aerial survey provides information on the current status for many causal agents, and is important when examining insect activity trends by comparing historical and current survey data over large areas.

Overview surveys are a 'snap shot' in time and therefore may not be timed to accurately capture the true extent or severity of a particular disturbance activity. Specially designed surveys with modified flight patterns and timing may be conducted to more accurately delineate the extent and severity of a particular disturbance agent. Special surveys, such as Swiss needle cast surveys, are conducted when resources are available to address situations of sufficient economic, political or environmental importance.

DIRECT ALL INQUIRIES TO:

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Salem, Oregon 97310

-- OR --

USDA Forest Service, Region 6
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Portland, Oregon 97208

*****DISCLAIMER*****

The insect and disease data presented should only be used as an indicator of insect and disease activity, and should be ground-checked for precise location, extent, severity and causal agent.

Color coded polygons show locations where trees were recently killed or defoliated. Intensity of damage is variable and not all trees within coded polygons are dead or defoliated.

The cooperators reserve the right to correct, update, modify or replace GIS products without notice. Using this map for purposes other than those for which it was intended may yield inaccurate or misleading results.